IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Dakai Liu and Elazar Rabbani

Serial No. 08/822,963) Group Art Unit: 1631

Filed: March 21, 1997) Examiner: David Guzo

Title: VECTORS, VIRAL VECTORS AND

PACKAGING CELL LINES FOR

PROPAGATING SAME

527 Madison Avenue, 9th Floor New York, New York 10022 January 11, 2002

FILED VIA EXPRESS MAIL

Honorable Commissioner of Patents and Trademarks Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. §§1.56 & 1.97-1.98

Dear Sirs:

Pursuant to the provisions of 37 C.F.R. § 1.97-1.98, and in full compliance with their duty of disclosure under 37 C.F.R. § 1.56. Applicants, through their attorney, are bringing the following forty-nine (49) documents to the attention of the U.S. Patent and Trademark Office and the Examiner handling their above-identified application:

Dakai Liu and Elazar Raubani

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EXPRESS MAIL CERTIFICATE

I hereby certify that this paper and the attachments herein are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.110 on the date indicated above and is addressed to the Commissioner of Patente and Trademarks, Washington, D.C. 20231.

Ronald C. Fedus

Reg. Exhibit 32,567

Date

11 2002



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The fee under 37 C.F.R. §1.17(p) for filing this Supplemental Information Disclosure Statement is \$180.00. The Patent and Trademark Office is hereby authorized to charge the amount of this fee (and any other fees in connection with this IDS) to Deposit Account No. 05-1135, or to credit any overpayment thereto.

Respectfully submitted,

Ronald C. Fedus

Registration No. 32,567 Attorney for Applicants

ENZO THERAPEUTICS, INC. c/o Enzo Biochem, Inc. 527 Madison Avenue, 9th Floor New York, New York 10022 Tel. (212) 583-010

Footnotes

¹Cited in the specification of the instant application, serial no. 08/822,963 filed 03/21/97.

²Cited by the Examiner on form PTO 892 in connection with an Office Action issued 06/05/98 in connection with the instant application, serial no. 08/822,963, filed 03/21/97.

³Cited in an Amendment under 37 C.F.R. §1.115 (in response to June 5, 1998 Office Action) in connection with the instant application, serial no. 08/822,963 filed 03/21/97.

⁴Cited in an Office Action issued 08/25/99 in connection with the instant application, serial no. 08/822,963 filed 03/21/97.

⁵Cited in an Amendment Under 37 C.F.R. §1/116 (in response to August 25, 1999 Office Action) in connection with the instant application, serial no. 08/822,963, filed 03/21/97.

⁸ This document is not presently available.

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 [EXHIBIT 1]¹
- 2. Anderson, W.F, "Human Gene Therapy," <u>Science 256:</u>808-813 (1992) [EXHIBIT 2] ¹
- 3. Mulligan, R.C, "The Basic Science of Gene Therapy," Science 260:926-932 (1993) [EXHIBIT 3] 1
- 4. Smith, A.E, "Viral Vectors in Gene Therapy," Ann Rev. Microbiol, 49:807-38 (1995) [EXHIBIT 4] 1,2,3
- 5. Muzyczka, N, "Use of Adeno-Associated Virus as a General Transduction Vector for Mammalian Cells," <u>Current Topics in Microbiolgy and Immunolgy</u> 158:97-129 (1992) [EXHIBIT 5]¹
- 6. Kotin, R.M, "Prospects for the Use of Adeno-Associated Virus as a Vector for Human Gene Therapy," <u>Human Gene Therapy</u> 5:793-801 (1994) [EXHIBIT 6]¹
- 7. Berliner, K.L, Curr. Top. Microbial. Immunol. 158:39-66 (1992)[EXHIBIT 7] 1,6
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- 9. Emerman, M et al., "Quantitative Analysis of Gene Suprression in Integrated Retrovirus Vectors," Molecular and Cellular Biology 6(1):792-800 (1986) [EXHIBIT 9] 1
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- 11. Yu, S.F et al., "Self-inactivating retroviral vectors designed for transfer of whole genes into mammalian cells," <u>Proc. Natl. Acad. Sci. USA 83:</u>3194-3198 (1986) [EXHIBIT 11] ¹
- 12. Hawley, R.G. et al., "Handicapped retroviral vectors efficiently transduce foreign genes into hematopoietic stem cells," <u>Proc. Natl. Acad. Sci. USA 84</u>; 2406-2410 (1987) [EXHIBIT 12] 1

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- 21. Samulski, R.J et al., "Targeted integration of adeno-associated virus (AAV) into human chromosome 19," <u>The FMBO Journal 10(12):</u>3941-3950 (1991) [EXHIBIT 21]
- 22. Kotin, R.M et al., "Mapping and Direct Visualization of a Region-Specific Viral DNA Integration Site on Chromosome 19q13-qter," Genomics 10:831-834 (1991) [EXHIBIT 22]
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- 26. Roy-Chowdhury et al., WO 98/37917 filed Feb. 26, 1998, with a priority date of February 28, 1997 based upon U.S. Patent Application Serial No. 08/808,629, now abandoned [EXHIBIT 26] 1
- 27. Wells S. et al., "The presence of an autologous marrow stromal cell layer increases glucocerebrosidase gene transduction of long-term culture initiating cells (LTCICs) from the bone marrow of a patient with Gaucher disease,"

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- 31. Rabbani E. et al., U.S. Patent Application Serial No 08/574,443 filed on December 15, 1995, abandoned in favor of U.S. Patent Application Serial No. 08/978,632 filed 11/25/97 [EXHIBIT 31] 1
- 32. Maddon, P.J et al., Cell 47:333-348 (1986) [EXHIBIT 32] 1,8
- 33. Lever, A.M.L, "Gene therapy for HIV infection," <u>British Medical Bulletin</u>, 51(1):149-166 (1995) [EXHIBIT 33] 1
- 34. Wu C.H. et al., "Targeting Genes: Delivery and Persistent Expression of a Foreign Gene Driven by Mammalian Regulatory Elements in Vivo" J. Biol. Chem. 264(29):16985-16987 [EXHIBIT 34] 1
- 35. Wagner E. et al., "Coupling of adenovirus to transferring-polysine/DNA complexes greatly enhances receptor-mediated gene delivery and expression

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- 37. Ruoslahti E. et al., "Alignment of Biologically Active Domains in the Fibronectin Molecule," The Journal of Biological Chemistry 256(14):7277-7281 (1981) [EXHIBIT 37]
- 38. Crisitiano R.J. et al., "Hepatic gene therapy: Adenovirus enhancement of receptor-mediated gene delivery and expression in primary hepatocytes," <u>Proc Natl. Acad. Sci. USA 90:2122-2136 [EXHIBIT 38]</u> 1
- 39. Curiel D.T. et al., "Adenovirus enhancement of transferring-polysine-mediated gene delivery," <u>Proc. Natl. Acad. Sci. USA 88</u>:8850-8854 (1991) [EXHIBIT 39] 1
- 40. Wagner E. et al., "Influenza virus hemagglutinin HA-2 N-terminal fusogenic peptides augment gene transfer by transferring-polysine-DNA complexes: Toward a synthetic virus-like gene-transfer vehicle," Proc. Natl. Acad. Sci. USA 89:7934-7938 (1992) [EXHIBIT 40]
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- 43. Argos P. et al., "The integrase family of site-specific recombinases: regional similarities and global diversity," <u>The FMBO Journal 5(2):</u>433-440 (1986) [EXHIBIT 43] ¹
- 44. Sattentau, Q.J. and Weiss, R.A., "The CD4 Antigen: Physiological Ligand and HIV Receptor," Cell 52:631-633 (1988) [EXHIBIT 44] 1
- 45. Robinson, W.S: "Hepandnavividae and their replication in Field, BN (ed.)" V Virology, 2; 2nd Ed., 2137-2169 (1989) [EXHIBIT 45] 1,6
- 46. Craigle, R. et al., Cell 62:829-837 (1990) [EXHIBIT 46] 1
- 47. Liu, D. et al., "Stable Human Immunodeficiency Virus Type 1 (HIV-1)
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Serial No.: 08/822,963 Filed: March 21, 1997

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HIV-1 Antisense Sequences Incorporated into U1 snRNA," Journal of Virology71(5):4079-4085 (1997) [EXHIBIT 47] 1

- 48. Thompson et al., U.S. Patent No. 5,750,390 [EXHIBIT 48]^{2,3}
- 49. Greatbach et al., U.S. Patent No. 5,324,643 [EXHIBIT 49]^{2,3,4,5}

A completed Form PTO-1449 listing the 49 above-submitted documents is also attached hereto as Exhibit 50.

By this voluntary citation of art, Applicants and their attorney are requesting that the documents be made of record in the present application.

The above citation of documents is not a representation that these documents constitute a complete or exhaustive listing, nor that the above listing necessarily includes the closest or most relevant documents, nor are these documents necessarily a complete listing of all documents known to Applicants or their attorney. It is simply a voluntary citation of documents made in good faith, which is not intended to serve in any way as a substitute for the Examiner's own search.

In view of the general and specific features described and claimed in the present application, Applicants respectfully submit that the present invention is neither disclosed nor suggested by the documents referred to above and is thus patentably distinct thereover. Furthermore, Applicants do not believe, and do not submit, by the citation of these references, that these documents, either by themselves or in combination with other documents, render the invention *prima facie* obvious under the duty of disclosure rules.

Applicants respectfully request that the Examiner make the above-submitted documents of record in the instant application. Applicants further request that the Examiner consider these documents as any of them may relate to the instant application.

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		Analysis of Gene Suprression in Integrated Retrovirus	
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		d retroviral vectors efficiently transduce foreign genes in Natl. Acad. Sci. USA 84; 2406-2410 (1987)	ŀδ
	Yee, J.K et al., "Gene expression Natl. Acad. Sci. USA 84:5197-52	from transcriptionally disabled retroviral vectors," Proc. 01 (1987)	
EXAMINER		DATE CONSIDERED	

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Da

Dakai Liu and Elazar Rabbani

Serial No.

08/822,963

Group Art Unit: 1631

Filed:

March 21, 1997

Examiner: David Guzo

Title: VECTORS, VIRAL VECTORS AND PACKAGING CELL LINES FOR PROPAGATING SAME

## TRANSMITTAL INFORMATION DISCLOSURE STATEMENT

HON. COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

Sir:

Transmitted herewith is a Second Information Disclosure Statement which is being filed in accordance with 37 C.F.R. §§ 1.56 and 1.97-1.98. The items listed on Form PTO-1449, a copy of which is enclosed, may be deemed to be pertinent to the above-identified application and are made of record to assist the Patent and Trademark Office in its examination of this application. The Examiner is respectfully requested to fully consider the items and to independently ascertain their teaching.

- 1.[] For each of the following items listed on the enclosed copy of Form PTO-1449 that is not in the English language, an English language translation of that item or a portion thereof or a concise explanation of the relevance of that item is enclosed:
- 2. [ ] For each of the following items listed on the enclosed copy of form PTO-1449 that is not in the English language, a concise explanation of the relevance of that Item is incorporated in the specification of the above-identified application.

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1ÑF'16,2003 S:28PM ENZO BIOCHEM,INC 883 0150 NO.345 P.31

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3.[]	Any copy of the Items on the enclosed copy of Form PTO-1449 that is not enclosed with this Information Disclosure Statement was previously cited by or submitted to the Patent and Trademark Office in the prior [ ] Divisional or [ ] Continuation-In-Part application under 37 C.F.R. §1.60, U.S. Serial No, filed									
4. [ ]	. [ ] No fee is due under 37 C.F.R. §1.17(p) for this Information Disclosu Statement since it is being filed in compliance with:									
	[ ]	37 C.F.R. ∍1.97(b)(1), within three months of the filing date of the above-identified application.								
	[]	37 C.F.R. $_91.97(b)(2)$ , within three months of the date of entry into the national stage as set forth in $_91.491$ in an international application.								
	[]	37 C.F.R. $\ni$ 1.97(b)(3), before the mailing date of a first Office action on the merits.								
5.[]	States the per final a action	e is due under 37 C.F.R. 31.17(p) for this Information Disclosure ment since it is being filed in compliance with 37 C.F.R. §1.97(c), after eriod specified in paragraph 4 above but before the mailing date of a action or a Notice of Allowance (where there has been no prior final b), and is accompanied by one of the certifications pursuant to 37 C.F.R. (e) set forth in paragraph 9 below.								
6. [x]	State:	is due under 37 C.F.R. §1.17(p) for this information Disclosure ment since it is being filed in compliance with 37 C.F.R. §1.97(c), after erlod specified in paragraph 4 above but before the mailing date of a action or a notice of allowance (where there has been no prior final si):								
	[]	A check in the amount of \$240.00 is enclosed in payment of the fee.								
	[x]	Charge the fee to Deposit Account No. 05-1135, Order No. ENZ-56. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.								

7. [ ] A fee is due under 37 C.F.R. §1.17(i)(1) for this Information Disclosure

first, but before payment of the issue fee, and is accompanied by:

Statement since It is being filed in compliance with 37 C.F.R. §1.97(d), after the mailing date of a final action or a notice of allowance, whichever comes

- a. one of the certification pursuant to 37 C.F.R. §1.97(e) set forth in paragraph 9 below; and
  b. the attached petition requesting consideration of this Information Disclosure Statement; and
  c. the fee due under 37 C.F.R. §1.17(i)(1) which is paid as set forth in paragraph 10 below.
  8. [ ] A fee is due under 37 C.F.R. §1.17(i)(1) for this Information Disclosure Statement since it is being filed in compliance with:
  a. [ ] 37 C.F.R. §1.313(b)(3) after the issue fee has been paid and
  - a. [ ] 37 C.F.R. §1.313(b)(3), after the issue fee has been paid and information cited in this Information Disclosure Statement may render at least one claim unpatentable and is accompanied by the attached Petition To Withdraw Application From Issue;
  - b. [ ] 37 C.F.R. §1.313(b)(5), after the issue fee has been paid and information cited in this Information Disclosure Statement is to be considered in a Continuation application upon abandonment of the instant application and is accompanied by the attached Petition To Withdraw Application From Issue.
  - c. [ ] The fee due under 37 C.F.R §1.17(i)(1) is paid as set forth in paragraph 10 below.
- 9. [ ] I hereby certify that each Item of Information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.
  - [ ] I hereby certify that no item of information in the Information Disclosure Statement filed herewith was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in >1.56(c) more than three months prior to the filing of this Information Disclosure Statement.
- 10. [ ] A check in the amount of \$130.00 is enclosed in payment of the fee due under 37 C.F.R. §1.17(i)(1).
  - [ ] Charge the fee under 37 C.F.R. §1.17(i)(1) to Deposit Account No. 05-1135.
    Order No. _______. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

[x] The Commissioner Is hereby authorized to charge any additional fees which may be required for this Information Disclosure Statement, or credit any overpayment to Deposit Account No. 05-1135. A DUPLICATE COPY OF THIS SHEET IS ATTACHED.

Respectfully submitted,

Dated: January 11, 2002

RONALD C. FEDUS
Registration No. 32,567

Mailing Address:

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